



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EGW-4-LED-27L-DA-S-50-80.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3610
[TESTLAB] TUV SUD America
[TESTDATE] 12/10/2018 12:08:21 PM
[ISSUEDATE] 03/11/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] EGW-4-LED-27L-DA-S-50-80
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27480
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	191
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.33 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20943	18224	17798
55	18973	14860	14615
65	17688	11672	10725
75	16706	9108	6818
85	16834	6149	2792

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	9002	9002	9002	9002	9002	9002	9002	9002	9002	9002
2.5	9102	9188	8887	8900	8860	8900	8887	9188	9102	9188
5.0	9076	9163	8977	8881	8827	8881	8977	9163	9076	9163
7.5	9037	9134	8944	8878	8790	8878	8944	9134	9037	9134
10.0	9064	9080	9017	8821	8744	8821	9017	9080	9064	9080
12.5	9101	9008	8950	8754	8705	8754	8950	9008	9101	9008
15.0	9196	9047	8871	8677	8652	8677	8871	9047	9196	9047
17.5	9071	8988	8784	8596	8578	8596	8784	8988	9071	8988
20.0	8919	8848	8670	8494	8481	8494	8670	8848	8919	8848
22.5	8742	8683	8535	8375	8347	8375	8535	8683	8742	8683
25.0	8553	8500	8381	8237	8206	8237	8381	8500	8553	8500
27.5	8348	8294	8204	8071	8057	8071	8204	8294	8348	8294
30.0	8096	8070	7999	7887	7890	7887	7999	8070	8096	8070
32.5	7826	7818	7771	7682	7695	7682	7771	7818	7826	7818
35.0	7526	7523	7511	7450	7460	7450	7511	7523	7526	7523
37.5	7189	7205	7229	7199	7211	7199	7229	7205	7189	7205
40.0	6806	6852	6912	6904	6913	6904	6912	6852	6806	6852
42.5	6395	6464	6571	6584	6593	6584	6571	6464	6395	6464
45.0	5967	6045	6204	6241	6240	6241	6204	6045	5967	6045
47.5	5564	5632	5811	5870	5868	5870	5811	5632	5564	5632
50.0	5195	5223	5390	5470	5467	5470	5390	5223	5195	5223
52.5	4853	4838	4944	5050	5036	5050	4944	4838	4853	4838
55.0	4529	4484	4503	4619	4601	4619	4503	4484	4529	4484
57.5	4209	4155	4083	4187	4161	4187	4083	4155	4209	4155
60.0	3889	3838	3693	3755	3723	3755	3693	3838	3889	3838
62.5	3578	3522	3333	3336	3301	3336	3333	3522	3578	3522
65.0	3277	3214	2993	2934	2890	2934	2993	3214	3277	3214
67.5	2982	2919	2677	2546	2499	2546	2677	2919	2982	2919
70.0	2690	2634	2384	2190	2137	2190	2384	2634	2690	2634
72.5	2395	2351	2106	1862	1788	1862	2106	2351	2395	2351
75.0	2108	2072	1840	1558	1472	1558	1840	2072	2108	2072
77.5	1836	1802	1582	1278	1172	1278	1582	1802	1836	1802
80.0	1565	1537	1334	1017	890	1017	1334	1537	1565	1537
82.5	1310	1280	1093	779	644	779	1093	1280	1310	1280
85.0	1065	1031	870	580	435	580	870	1031	1065	1031
87.5	826	815	683	431	285	431	683	815	826	815
90.0	634	630	535	330	213	330	535	630	634	630
92.5	489	486	421	272	191	272	421	486	489	486
95.0	382	383	339	239	180	239	339	383	382	383
97.5	310	312	286	214	174	214	286	312	310	312
100.0	266	269	251	195	168	195	251	269	266	269
102.5	241	242	226	178	160	178	226	242	241	242
105.0	226	225	208	163	149	163	208	225	226	225
107.5	215	212	193	148	137	148	193	212	215	212
110.0	207	203	181	135	124	135	181	203	207	203
112.5	200	194	170	121	111	121	170	194	200	194
115.0	192	185	159	107	98	107	159	185	192	185
117.5	185	176	148	94	86	94	148	176	185	176
120.0	176	167	137	81	76	81	137	167	176	167
122.5	168	157	126	69	66	69	126	157	168	157
125.0	159	147	114	58	58	58	114	147	159	147
127.5	148	135	101	49	51	49	101	135	148	135
130.0	137	124	89	41	45	41	89	124	137	124
132.5	125	112	77	35	40	35	77	112	125	112

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CANDELA TABULATION - (Cont.)

135.0	113	100	66	32	36	32	66	100	113	100
137.5	100	88	55	29	33	29	55	88	100	88
140.0	88	76	45	27	30	27	45	76	88	76
142.5	77	65	36	25	27	25	36	65	77	65
145.0	66	55	29	23	25	23	29	55	66	55
147.5	55	45	23	22	23	22	23	45	55	45
150.0	44	36	20	21	22	21	20	36	44	36
152.5	36	29	20	20	20	20	20	29	36	29
155.0	28	24	20	20	20	20	20	24	28	24
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	9002	9002	9002	9002	9002	9002	9002
2.5	8887	8900	8860	8900	8887	9188	9102
5.0	8977	8881	8827	8881	8977	9163	9076
7.5	8944	8878	8790	8878	8944	9134	9037
10.0	9017	8821	8744	8821	9017	9080	9064
12.5	8950	8754	8705	8754	8950	9008	9101
15.0	8871	8677	8652	8677	8871	9047	9196
17.5	8784	8596	8578	8596	8784	8988	9071
20.0	8670	8494	8481	8494	8670	8848	8919
22.5	8535	8375	8347	8375	8535	8683	8742
25.0	8381	8237	8206	8237	8381	8500	8553
27.5	8204	8071	8057	8071	8204	8294	8348
30.0	7999	7887	7890	7887	7999	8070	8096
32.5	7771	7682	7695	7682	7771	7818	7826
35.0	7511	7450	7460	7450	7511	7523	7526
37.5	7229	7199	7211	7199	7229	7205	7189
40.0	6912	6904	6913	6904	6912	6852	6806
42.5	6571	6584	6593	6584	6571	6464	6395
45.0	6204	6241	6240	6241	6204	6045	5967
47.5	5811	5870	5868	5870	5811	5632	5564
50.0	5390	5470	5467	5470	5390	5223	5195
52.5	4944	5050	5036	5050	4944	4838	4853
55.0	4503	4619	4601	4619	4503	4484	4529
57.5	4083	4187	4161	4187	4083	4155	4209
60.0	3693	3755	3723	3755	3693	3838	3889
62.5	3333	3336	3301	3336	3333	3522	3578
65.0	2993	2934	2890	2934	2993	3214	3277
67.5	2677	2546	2499	2546	2677	2919	2982
70.0	2384	2190	2137	2190	2384	2634	2690
72.5	2106	1862	1788	1862	2106	2351	2395
75.0	1840	1558	1472	1558	1840	2072	2108
77.5	1582	1278	1172	1278	1582	1802	1836
80.0	1334	1017	890	1017	1334	1537	1565

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82.5	1093	779	644	779	1093	1280	1310
85.0	870	580	435	580	870	1031	1065
87.5	683	431	285	431	683	815	826
90.0	535	330	213	330	535	630	634
92.5	421	272	191	272	421	486	489
95.0	339	239	180	239	339	383	382
97.5	286	214	174	214	286	312	310
100.0	251	195	168	195	251	269	266
102.5	226	178	160	178	226	242	241
105.0	208	163	149	163	208	225	226
107.5	193	148	137	148	193	212	215
110.0	181	135	124	135	181	203	207
112.5	170	121	111	121	170	194	200
115.0	159	107	98	107	159	185	192
117.5	148	94	86	94	148	176	185
120.0	137	81	76	81	137	167	176
122.5	126	69	66	69	126	157	168
125.0	114	58	58	58	114	147	159
127.5	101	49	51	49	101	135	148
130.0	89	41	45	41	89	124	137
132.5	77	35	40	35	77	112	125
135.0	66	32	36	32	66	100	113
137.5	55	29	33	29	55	88	100
140.0	45	27	30	27	45	76	88
142.5	36	25	27	25	36	65	77
145.0	29	23	25	23	29	55	66
147.5	23	22	23	22	23	45	55
150.0	20	21	22	21	20	36	44
152.5	20	20	20	20	20	29	36
155.0	20	20	20	20	20	24	28
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3361.66	N.A.	12.20
0-30	7221.24	N.A.	26.30
0-40	11902.74	N.A.	43.30
0-60	20709.11	N.A.	75.40
0-80	25672.86	N.A.	93.40
0-90	26582.92	N.A.	96.70
10-90	25726.21	N.A.	93.60
20-40	8541.08	N.A.	31.10
20-50	13278.34	N.A.	48.30
40-70	11843.45	N.A.	43.10
60-80	4963.74	N.A.	18.10
70-80	1926.66	N.A.	7.00
80-90	910.07	N.A.	3.30
90-110	567.29	N.A.	2.10
90-120	715.70	N.A.	2.60
90-130	811.89	N.A.	3.00
90-150	889.74	N.A.	3.20
90-180	897.17	N.A.	3.30
110-180	329.88	N.A.	1.20
0-180	27480.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	856.72
10-20	2504.95
20-30	3859.58
30-40	4681.5
40-50	4737.26
50-60	4069.11
60-70	3037.08
70-80	1926.66
80-90	910.07
90-100	357.64
100-110	209.65
110-120	148.41
120-130	96.19
130-140	53.29
140-150	24.56
150-160	7.43
160-170	0.00
170-180	0.00

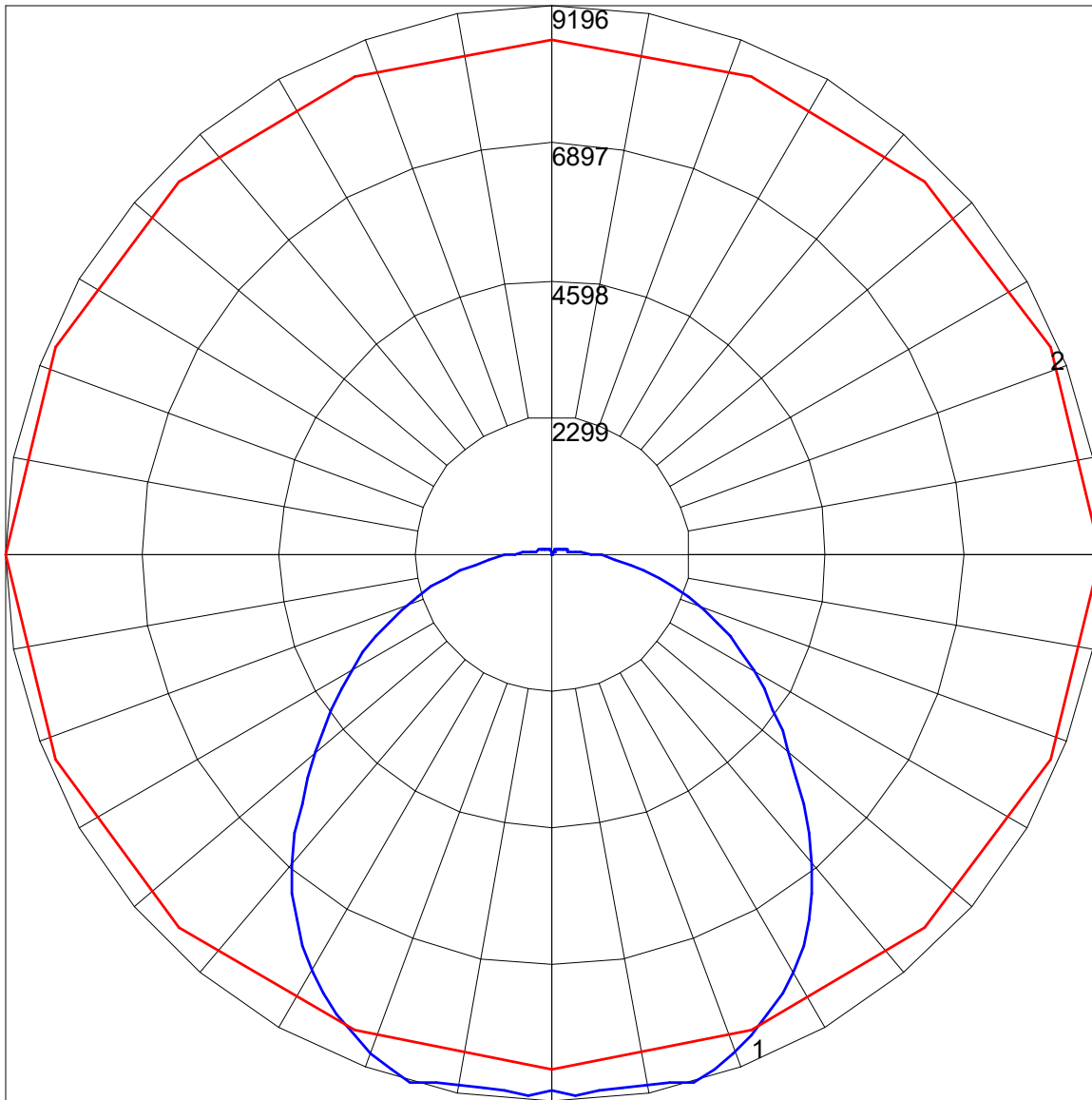
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	92	89	91	88	85	86	84	82	80
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	76	72	69	66
3	89	78	70	63	86	77	69	63	73	67	61	70	64	60	67	62	58	56
4	82	69	61	54	79	68	60	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	39	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	29
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 9196 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)